

CLAIMS

We claim:

1 1. A method of performing color correction on at least one image,
2 said image comprised of a plurality of pixels, said method comprising:
3 accepting a first vector input from a first color adjustment pad, said first vector
4 input proportionally adjusting a color of pixels of a selected luminance value
5 in said image; and
6 adjusting a color of pixels with other luminance values in a manner proportional
7 to a difference between said selected luminance value and said other
8 luminance value.

1 2. The method of performing color correction on at least one image as
2 claimed in claim 1 wherein said selected luminance value is a white luminance value.

1 3. The method of performing color correction on at least one image as
2 claimed in claim 1 wherein said selected luminance value is a black luminance value.

1 4. The method of performing color correction on at least one image as
2 claimed in claim 1 wherein said selected luminance value is a middle luminance value.

1 5. The method of performing color correction on at least one image as
2 claimed in claim 1 wherein said manner proportional is constructed using a Bezier curve.

1 6. A method of performing color correction by adjusting luminance
2 values of a set of pixels based on a luminance mapping relationship, the method
3 comprising:
4 a) receiving a user input for modifying luminance values of pixels;
5 b) based on the user input, modifying the luminance mapping relationship for
6 mapping luminance values; and
7 c) using the modified luminance mapping relationship to map original luminance
8 values of pixels to adjusted luminance values.

1 7. The method of claim 6, wherein a look up table specifies the
2 luminance mapping relationship by identifying an output luminance value for each of a
3 set of input luminance values, wherein modifying the luminance mapping relationship
4 comprises modifying a set of output luminance values in the look up table based on the
5 user input.

1 8. The method of claim 6, wherein an equation specifies the mapping
2 relationship, and wherein modifying the mapping relationship comprises modifying the
3 equation.

1 9. A method of performing color correction by adjusting chrominance
2 values of a set of pixels based on a set of chrominance mapping relationships, the method
3 comprising:

- 4 a) receiving a user input for modifying chrominance values of pixels;
5 b) based on the user input, modifying the chrominance mapping relationship for
6 mapping chrominance values; and
7 c) using the modified chrominance mapping relationship to map original
8 chrominance values of pixels to adjusted chrominance values.

1 2. The method of claim 9, wherein a look up table specifies the
2 chrominance mapping relationship by identifying an output chrominance value for each
3 of a set of input chrominance values, wherein modifying the chrominance mapping
4 relationship comprises modifying a set of output chrominance values in the look up table
5 based on the user input.

1 3. The method of claim 9, wherein an equation specifies the mapping
2 relationship, and wherein modifying the mapping relationship comprises modifying the
3 equation.